

Highly Functional Silicone for Automotive

Silicone for EV

- Thermal Interface materials
- Case Sealants
- Substrate Coating Materials
- Epoxy Resin Delamination Countermeasure Materials
- Die Bonding Material for Sensors
- Sensor Element Protective Materials
- Insulating Protective Materials
- LOCA

Highly Reliable Silicone Rubbers

- Highly Transparent Materials for Head Lamp Lenses
- Waterproof Sealants, Various Sealing Materials 🥔
- Resin and Metal Composite Parts
- Anti-vibration Parts

Highly Functional Silicone for Resins

- Weather Strips
- Urethane Synthetic Leather Sheet
- Dashboard, Glass Channel
- Damper Material for Cup Holder and Storage Box

Silicone for EV Shin-Etsu Silicone offers products that help increase the reliability of EVs in three areas: Electrification Solutions, Power Devices, and Sensing Infortainment.

Electrification Solutions

PCU/Lithium Ion Batteries

Heat dissipation	Applications	Product classification	Product name	Features and benefits
of the reactor of the PCU	Heat dissipation		KE-1867	Thermal conductivity 2.2 W/m·K, UL-V0 certified, adhesion
		Liquid rubber	KE-1897S-A/B	Thermal conductivity 2.1 W/m·K, UL-V0 equivalent, flowability, potting
			KE-1899-A/B	Thermal conductivity 2.9 W/m·K, UL-V0 certified, flowability, potting
		Can filler	SDP series	Thermal conductivity 1.0 W/m·K to 9.5 W/m·K,
			CLG series	misalignment resistance, long-term reliability
		Thermal interface insulating silicone rubber sheets	TC-TA series	Thermal conductivity 1.0 W/m·K to 8.0 W/m·K, high strength
		Thermal interface silicone soft pads	TC-CA series	Thermal conductivity 1.8 W/m·K to 5.2 W/m·K, tolerance-absorbing
			TC-PEN series	Thermal conductivity 3.2 W/m·K to 5.2 W/m·K, weight reduction
			TC-UP8 series	Thermal conductivity 8.0 W/m·K~, tolerance-absorbing
		Thermal softening sheets phase change materials	PCS series	Thermal conductivity 1.7 W/m·K to 3.0 W/m·K, thermal softening



Heat dissipation of the PCU's power card



ECU



Applications	Product classification	Product name	Features and benefits	
Case sealant		KE-4930-G	One-component moisture curing	
		KE-1875	One-component heat curing	
		KE-1189-A/B	Two-component room temperature curing	
	Liquid rubber	M-BARRIER-02	One-component heat curing, sulfurization countermeasures	
Substrate coating		MR-COAT series	Solvent type, high hardness	
		KUV-3433-UV	Solvent-free, UV curing	
		M-BARRIER-01	Sulfurization countermeasures	
Heat dissipation	Gap filler	SDP series	Thermal conductivity 1.0 W/m·K to 9.5 W/m·K	
	Thermal interface insulating silicone rubber sheets	TC-TA series	Thermal conductivity 1.0 W/m·K to 8.0 W/m·K, high strengt	
	Thermal interface silicone soft pads	TC-CA series	Thermal conductivity 1.8 W/m·K to 5.2 W/m·K, tolerance-absorbing	

Power Devices

Epoxy Resin Parts



Applications	Product classification	Product name	Features and benefits
Epoxy resin delamination countermeasures	Polyimide silicone	SMP-5008PGMEA	Curable at 150°C, excellent adhesion to epoxy resin, low elasticity
Heat dissipation	Thermal Interface Insulating silicone rubber sheets	TC-TA series	Thermal conductivity 1.0 W/m·K to 8.0 W/m·K, high strength

IGBT Modules

	Applications	Product classification	Product name	Features and benefits
	Insulation protection	Gel	KE-1066-A/B	Heat resistance, cold resistance, and adhesion
	Heat dissipation	Thermal interface oil compounds	G-777	Thermal conductivity 3.3 W/m·K, offering a balance of workability, heat resistance and thermal conductivity
		Thermal Interface Insulating silicone rubber sheets	TC-TA series	Thermal conductivity 1.0 W/m·K to 8.0 W/m·K, high strength

Sensing Infortainment

Image Sensor



ApplicationsProduct classificationProduct nameFeatures and benefitsDie bonding materialKER-4410Low cure shrinkage, UV activated curingGlass sealant and die bonding materialsLiquid rubberKER-6020-F2Heat curing, excellent low temperature characteristicsGlass sealantKER-4304-3UVUV curing

Glass sealant

Pressure Sensor



ApplicationsProduct classificationProduct nameFeatures and benefitsSensor element protectionGelKER-6201, FE-73-BKImparting cold and oil resistanceDie bonding materialLiquid rubberFER-3850-D1, KER-6020-F2Cold resistance, oil resistance, precision coating is possible.

Display



Applications	Product classification	Product name	Features and benefits	
LOCA*	Gel	X-32-3855	UV activated curing, one-component type, low discoloration due to heat	
Heat dissipation	Thermal Interface Silicone Soft Pads	TC-CA series	Thermal conductivity 1.8 W/m·K to 5.2 W/m·K, tolerance-absorbing	
HIDCA Liquid Optical Clark Adhaaiya				

LOCA = Liquid Optical Clear Adhesive

Excellent Characteristics Achieve Improved Reliability of Automotive Parts.

Highly Reliable Silicone Rubbers

Highly Transparent Materials for Head Lamp Lenses

KE-2061 series, KE-2062 series, X-34-4368-A/B

Highly Transparent Liquid Silicone Rubber for LIMS



- Combined with high transparency, high heat resistance, flexibility, weather resistance and high strength
- Highly designable, highly transparent parts with complex shapes that are difficult for polycarbonate, acrylic resin, glass, etc. can be molded
- Ideal for lenses for LED lights such as automotive headlights



KE-2017 series, KE-2019 series

Liquid Silicone Rubber for Secondary Vulcanization-free LIMS

- Features and Benefits
- Reduces the amount of low-molecular-weight siloxane that can cause electrical contact failures.
- No secondary vulcanization is required, and the production process can be shortened.
- Die fouling during molding is improved, and the number of die cleaning times is reduced.
- Lineup of oil bleed type ideal for waterproof seal of wiring harness and low compression set type ideal for various seals

Resin Composite Parts and Metal Composite Parts

KE-2097 series, KE-2098 series

Self-adhesive Liquid Silicone Rubber for LIMS



- It has high adhesion to various resins (i.e. polycarbonate, nylon, and PBT), and metals (i.e. SUS and iron) with no primer.
 - And it can be integrally molded with these substrates.
- Cost reduction by shortening the production process is possible.
- Environmentally friendly as there is no need for primers
- KE-2097 series is a FDA certified product.

Various anti-vibration components (i.e. powertrain support mounts)

KE-X01EM-U series, KE-55X0-U series

Millable Silicone Rubber for Anti-vibration



- It has stable and excellent anti-vibration characteristics in a wide temperature range from low temperature to high temperature, which is difficult to realize by organic rubber.
- Lineup of low dynamic magnification type with low frequency dependence of elastic modulus E' and high damping type with large loss factor
- Absorbing and shutting off vibrations from power trains and other devices transmitted to the vehicle body, realizing a comfortable ride









For Comfortable Driving by Enhancing the Function of the Resin

Highly Functional Silicone for Resins

Window Frames (Weather Strips), Interior Materials (Dashboards) and Glass Channels

Used as Resin Hybridization Material

X-22-2101, X-25-5010

Master Batch



Improvement of wear resistance, reduction of squeaking noise, and imparting weatherability



Weather Strips

Used as Coating Agent

KM-9749, X-52-1133 Silicone Emulsion



Imparting slip properties, water-based product



Damper Material for Cup Holder and Storage Box

Used as Damper Material

KF-96H series Dimethyl Silicone Fluid



Stable damper function



Urethane Synthetic Leather Sheet

Used as Resin Hybridization Material

KF-6001 series, X-22-176 series Carbinol-modified Silicone Fluid



Improvement of texture, imparting weatherability, etc.







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